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IEEE STD	IEEE Standard

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Advanced Search: INSPEC - 1969 to date (INZZ)

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Terms used **analytic models** and **cad** and **joint** Found **33,284** of **160,906**

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1 Evaluation methods in SARA—the graph model simulator

Rami R. Razouk, Mary Vernon, Gerald Estrin

August 1979 **Proceedings of the 1979 ACM SIGMETRICS conference on Simulation, measurement and modeling of computer systems**, Volume 11 , 8 Issue 1 , 3

Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index terms

The supported methodology evolving in the SARA (System ARchitects' Apprentice) system creates a design frame-work on which increasingly powerful analytical tools are to be grafted. Control flow analyses and program verification tools have shown promise. However, in the realm of the complex systems which interest us there is a great deal of research and development to be done before we can count on the use of such powerful tools. We must always be prepared to resort to experiments for evalua ...

2 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

3 Electronically-mediated partnerships: the use of CAD technologies in supplier relations

M. Bensaou

January 1999 **Proceeding of the 20th international conference on Information Systems**

Full text available: pdf(238.89 KB) Additional Information: full citation, references, citings, index terms

4 An analytical model for partially blocking finite-buffered switching networks

James V. Luciani, C. Y. Roger Chen

October 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 5

Full text available: pdf(820.40 KB) Additional Information: full citation, references, index terms

5 Joint scheduling and admission control for ATS-based switching nodes
Jay Hyman, Aurel A. Lazar, Giovanni Pacifici
October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols**, Volume 22 Issue 4
Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings, index terms

A joint scheduling and admission control algorithm is presented for Asynchronous Time-Sharing (ATS)-based switching nodes carrying real-time traffic. Systems based on ATS guarantee quality of service, at both the levels of cells and calls, for three well-defined traffic classes. A mechanism is outlined by which an admission control strategy can be tailored to a particular mix of traffic classes. A mechanism is outlined by which an admission control strategy can be tailored to a particular m ...

6 Explanation-based learning: a survey of programs and perspectives
Thomas Ellman
June 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 2
Full text available: pdf(6.15 MB) Additional Information: full citation, abstract, references, citings, index terms

Explanation-based learning (EBL) is a technique by which an intelligent system can learn by observing examples. EBL systems are characterized by the ability to create justified generalizations from single training instances. They are also distinguished by their reliance on background knowledge of the domain under study. Although EBL is usually viewed as a method for performing generalization, it can be viewed in other ways as well. In particular, EBL can be seen as a method that performs fo ...

7 Adding browsing semantics to the hypertext model
P. David Stotts, Richard Furuta
January 2000 **Proceedings of the ACM conference on Document processing systems**
Full text available: pdf(709.97 KB) Additional Information: full citation, references, citings, index terms

8 Three dimensional threaded fastener meshing algorithm
Paul Kinney, Dave Strenski
May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**
Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index terms

Understanding the stresses in the root of a thread of a bolt has never been easy. Ideally one would like to put a strain gage right at the root and measure them directly, but the placement of the gage and its wires are impossible without changing the insitu environment. Engineers then turned to analytical models, but soon discovered that two dimensional models where not giving the correct results because the geometry is not axis symmetric and three dimensional models where too difficult to me ...

Keywords: bolt, solid meshing, threaded fastener

9 The design and fabrication of welded tubular joints using solid modelling techniques
Z. Wang, S. Bedi, D. C. Weckman
June 1993 **Proceedings on the second ACM symposium on Solid modeling and applications**
Full text available: pdf(940.05 KB) Additional Information: full citation, references, index terms

10 Knowledge and representation: Acquisition, representation, query and analysis of spatial data: a demonstration 3D digital library

Jeremy Rowe, Anshuman Razdan, Arleyn Simon

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(7.27 MB) Additional Information: full citation, abstract, references, index terms

The increasing power of techniques to model complex geometry and extract meaning from 3D information create complex data that must be described, stored, and displayed to be useful to researchers. Responding to the limitations of two-dimensional (2D) data representations perceived by discipline scientists, the Partnership for Research in Spatial Modeling (PRISM) project at Arizona State University (ASU) developed modeling and analytic tools that raise the level of abstraction and add semantic val ...

Keywords: WWW Applications, digital library, geometric modeling, image databases, information visualization, physically based modeling, scientific visualization, shape recognition

11 Poster Session: Using shape distributions to compare solid models

Cheuk Yiu Ip, Daniel Lapadat, Leonard Sieger, William C. Regli

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available: pdf(237.71 KB) Additional Information: full citation, abstract, references, citings, index terms

Our recent work has described how to use feature and topology in-formation to compare 3-D solid models. In this work we describe a new method to compare solid models based on shape distributions. Shape distribution functions are common in the computer graphics and computer vision communities. The typical use of shape dis-tributions is to compare 2-D objects, such as those obtained from imaging devices (cameras and other computer vision equipment). Recent work has applied shape distribution metri ...

Keywords: 3D search, shape matching, shape recognition, solid model databases

12 Highlights of CMU research on CAD, CAM and CAT of VLSI circuits

John Paul Shen

November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available: pdf(1.35 MB) Additional Information: full citation, references, index terms

13 Analytical estimation of transition activity from word-level signal statistics

Sumant Ramprasad, Naresh R. Shanbhag, Ibrahim N. Hajj

June 1997 **Proceedings of the 34th annual conference on Design automation - Volume 00**

Full text available: pdf(279.08 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Presented here is an analytical methodologyto determine the average signal activity, T, from the high-levelsignal statistics, a statistical signal generation model,and the signal encoding.Simulation results for 16 bit signalsgenerated via AR(1) and MA(1) models indicate anestimation error in T of less than 2%.The applicationof the proposed method to the estimation of T in DSPhardware is also explained.

14 The emerging technology of CAD/CAM
Larry Lichten
January 1984 **Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge**
Full text available: pdf(570.62 KB) Additional Information: full citation, abstract, references, index terms

Computer-Aided Design and Manufacture (CAD/CAM) represents a merging of technological advances in computer hardware and software with pressing needs in manufacturing industries. Integrated manufacturing systems--from computer graphics-aided design through engineering analysis and automated fabrication--are only now beginning to fulfill nearly twenty-five-year old promises of increased production efficiency. This paper summarizes CAD/CAM's evolution and its current state and then describes s ...

15 Three-dimensional object recognition
Paul J. Besl, Ramesh C. Jain
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1
Full text available: pdf(7.76 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

16 A computer science perspective of bridge design
Alfred Spector, David Gifford
April 1986 **Communications of the ACM**, Volume 29 Issue 4
Full text available: pdf(3.51 MB) Additional Information: full citation, abstract, references, citings, index terms

What kinds of lessons does a classical engineering discipline like bridge design have for an emerging engineering discipline like computer systems design? Case-study editors Alfred Spector and David Gifford consider the insight and experience of bridge designer Gerard Fox to find out how strong the parallels are.

17 TimeBench: a CAD tool for real-time system design
R. J. A. Buhr, G. M. Karam, C. M. Woodside, R. Casselman, G. Franks, H. Scott, D. Bailey
September 1994 **ACM SIGAda Ada Letters , Proceedings of the second international symposium on Environments and tools for Ada**, Volume XIV Issue SI
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, citings, index terms

This paper provides an overview of *TimeBench*, a prototype CAD tool for designing real-time systems, as well as some experiences gained through building and using it. TimeBench aims to support a true engineering design process for real-time systems in a largely graphical working environment. The environment includes support for design synthesis, analysis, and system generation, with equal emphasis on the design of operational structure and the design of temporal behavior. Its main features ...

18 Collision detection and response for computer animationr3
Matthew Moore, Jane Wilhelms
June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques**, Volume 22 Issue 4
Full text available: pdf(3.12 MB) Additional Information: full citation, abstract, references, citings, index terms

When several objects are moved about by computer animation, there is the chance that they will interpenetrate. This is often an undesired state, particularly if the animation is seeking to model a realistic world. Two issues are involved: *detecting* that a collision has occurred, and *responding* to it. The former is fundamentally a kinematic problem, involving the positional relationship of objects in the world. The latter is a dynamic problem, in that it involves predicting behavior ...

Keywords: analytical solution, collision detection, collision response, computer animation, dynamical simulation

19 Computational modeling for the computer animation of legged figures

Michael Girard, A. A. Maciejewski

July 1985 **ACM SIGGRAPH Computer Graphics , Proceedings of the 12th annual conference on Computer graphics and interactive techniques**, Volume 19 Issue 3

Full text available: pdf(654.08 KB) Additional Information: full citation, abstract, references, citings, index terms

Modeling techniques for animating legged figures are described which are used in the PODA animation system. PODA utilizes pseudoinverse control in order to solve the problems associated with manipulating kinematically redundant limbs. PODA builds on this capability to synthesize a kinematic model of legged locomotion which allows animators to control the complex relationships between the motion of the body of a figure and the coordination of its legs. Finally, PODA provides for the integration o ...

Keywords: computational modeling, legged locomotion, manipulators, motion control

20 Hierarchical statistical characterization of mixed-signal circuits using behavioral modeling

Eric Felt, Stefano Zanella, Carlo Guardiani, Alberto Sangiovanni-Vincentelli

January 1997 **Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(231.06 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

A methodology for hierarchical statistical circuit characterization which does not rely upon circuit-level Monte Carlo simulation is presented. The methodology uses principal component analysis, response surface methodology, and statistics to directly calculate the statistical distributions of higher-level parameters from the distributions of lower-level parameters. We have used the methodology to characterize a folded cascode operational amplifier and a phase-locked loop. This methodology permi ...

Keywords: statistical characterization, mixed-signal circuits, behavioral modeling

results **1 - 23**

23 Articles Found

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1. **Incremental cost-effectiveness of drug-eluting stents compared with a third-generation bare-metal stent in a real-world setting: randomised Basel Stent Kosten Effektivitäts Trial (BASKET)** • ARTICLE
The Lancet, Volume 366, Issue 9489, 10 September 2005-16 September 2005, Pages 921-929
Christoph Kaiser, Hans Peter Brunner-La Rocca, Peter T Buser, Piero O Bonetti, Stefan Osswald, André Linka, Alain Bernheim, Andreas Zutter, Michael Zellweger, Leticia Grize *et al.*
SummaryPlus | Full Text + Links | PDF (142 K)

2. **The pathway from child personality to adult adjustment: The road is not straight** • ARTICLE
Journal of Research in Personality, Volume 39, Issue 3, June 2005, Pages 369-394
Phebe Cramer and Allison Tracy
Abstract

3. **Optimization and experimental verification for the antagonistic stiffness in redundantly actuated mechanisms: a five-bar example** • ARTICLE
Mechatronics, Volume 15, Issue 2, March 2005, Pages 213-238
Sang Heon Lee, Jae Hoon Lee, Byung-Ju Yi, Soo Hyun Kim and Yoon Keun Kwak
Abstract

4. **Product Design as a Core Competence in a Design-Oriented Industry** • REVIEW ARTICLE
Advances in Applied Business Strategy, Volume 9, 2005, Pages 103-126
Helena Mäkinen
Abstract

5. **Computational simulation of axial dynamization on long bone fractures** • ARTICLE
Clinical Biomechanics, Volume 20, Issue 1, January 2005, Pages 83-90
Raymond W. Liu, Yoon H. Kim, David C. Lee, Nozomu Inoue, Terry K. Koo and Edmund Y.S. Chao
Abstract

6. **A mathematical method for ergonomic-based design: placement** • ARTICLE
International Journal of Industrial Ergonomics, Volume 34, Issue 5, November 2004, Pages 375-394
Karim Abdel-Malek, Wei Yu, Jingzhou Yang and Kyle Nebel
Abstract

7. ☐ **OPPORTUNITY DEVELOPMENT: A SOCIO-COGNITIVE PERSPECTIVE** • REVIEW ARTICLE
Advances in Entrepreneurship, Firm Emergence and Growth, Volume 6, 2003, Pages 265-314
Alice de Koning
Abstract

8. ☐ **Quality function deployment: A literature review** • ARTICLE
European Journal of Operational Research, Volume 143, Issue 3, 16 December 2002, Pages 463-497
Lai-Kow Chan and Ming-Lu Wu
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9. ☐ **The mediating role of operations knowledge in the relationship of context with performance** • ARTICLE
Journal of Operations Management, Volume 19, Issue 4, July 2001, Pages 453-469
Richard Germain, Cornelia Dröge and William Christensen
Abstract

10. ☐ **ACC/AHA guidelines for percutaneous coronary intervention (revision of the 1993 PTCA guidelines): A report of the American College of Cardiology/ American Heart Association Task Force on practice guidelines (Committee to revise the 1993 guidelines for percutaneous transluminal coronary angioplasty)** ***endorsed by the Society for Cardiac Angiography and Interventions*** • REVIEW ARTICLE
Journal of the American College of Cardiology, Volume 37, Issue 8, 15 June 2001, Page 2239
Sidney C. Smith, Jr , James T. Dove, Alice K. Jacobs, J. Ward Kennedy, Dean Kereiakes, Morton J. Kern, Richard E. Kuntz, Jeffery J. Popma, Hartzell V. Schaff *et al.*
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11. ☐ **Change drivers in the new millennium: implications for manufacturing strategy research** • ARTICLE
Journal of Operations Management, Volume 19, Issue 2, February 2001, Pages 143-160
Caron H. St. John, Alan R. Cannon and Richard W. Pouder
Abstract

12. ☐ **Towards a taxonomy of search patterns of manufacturing flexibility in small and medium-sized firms** • ARTICLE
Omega, Volume 28, Issue 2, April 2000, Pages 195-213
Marcello Braglia and Alberto Petroni
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Journal of the American College of Cardiology, Volume 35, Issue 4, 15 March 2000, Pages 825-880
Gordon A. Ewy and Joseph P. Ornato
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Computers & Structures, Volume 73, Issues 1-5, 12 October 1999, Pages 1-31
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Data & Knowledge Engineering, Volume 30, Issue 2, June 1999, Pages 101-120
Byoung-Mo IM, Myoung Ho Kim, Jae Soo Yoo and Kil Seong Choi
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16. **The relationship between product customization and organizational structure** • ARTICLE
Journal of Operations Management, Volume 17, Issue 4, June 1999, Pages 377-391
Shawnee Vickery, Cornelia Dröge and Richard Germain
Abstract

17. **Manufacturing flexibility: methods for measuring the impact of product variety on performance in process industries** • ARTICLE
Journal of Operations Management, Volume 17, Issue 2, January 1999, Pages 163-178
William L. Berry and Martha C. Cooper
Abstract

18. **Pharmacoeconomics: what is it and where is it going?** • ARTICLE
American Journal of Hypertension, Volume 11, Issue 8, Supplement 1, August 1998, Pages 112S-119S
Jeffrey S. McCombs
Abstract

19. **Heat transfer—a review of 1994 literature** • ARTICLE
International Journal of Heat and Mass Transfer, Volume 40, Issue 16, October 1997, Pages 3729-3804
E. R. G. Eckert, R. J. Goldstein, W. E. Ibele, S. V. Patankar, T. W. Simon, P. J. Strykowski, K. K. Tamma, T. H. Kuehn, A. Bar-Cohen, J. V. R. Heberlein *et al.*
Abstract

20. **Strategy Japanese style: mobilizing the manufacturing workforce** • ARTICLE
Long Range Planning, Volume 30, Issue 2, April 1997, Pages 227-241
M. Hossein Safizadeh
Abstract

21. **Vacuum glazing—A new component for insulating windows** • ARTICLE
Building and Environment, Volume 30, Issue 4, October 1995, Pages 459-492
R. E. Collins, G. M. Turner, A. C. Fischer-Cripps, J. -Z. Tang, T. M. Simko, C. J. Dey, D. A. Clugston, Q. -C. Zhang and J. D. Garrison
Abstract

22. **Manufacturing strategy, business strategy and firm performance in a mature industry** • ARTICLE
Journal of Operations Management, Volume 13, Issue 1, July 1995, Pages 19-33
Fredrik P. Williams, Derrick E. D'Souza, Martin E. Rosenfeldt and Massoud Kassaee
Abstract

23. **Network thermodynamics revisited** • ARTICLE
Biosystems, Volume 34, Issues 1-3, 1995, Pages 47-63
Edwin R. Lewis
Abstract

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PGPUB-DOCUMENT-NUMBER: 20010034590
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010034590 A1

TITLE: Analytic model preparing apparatus and storage medium and apparatus storing analytic model preparing program

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Onodera, Makoto	Tsuchiura		JP	
Nishigaki, Ichiro	Ishioka		JP	

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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